THE FARMING WORLD.

HIGH-PRICED BACON.

Selection of the Best Breeds and Feeds

for This Purpose. There are two all-important matters connected with the bacon trade which are entirely in the hands of the farmers, and which ought to receive every attention, viz.: the breeding and feeding of pigs, says an exchange. Differwhile trying to impress upon the farmcareful attention to breeding it may be well to warn them against attempting to introduce a new breed of pigs into a district. It is much the safer way for farmers to aim at the improvement of pigs which have been long bred in a district than to attempt to introduce new breeds.

While this is so, care ought to be taken in the selection and introduction from other districts of high-class male animals to develop the points essential in good pigs. Speaking generally, short, dumpy boars and sows ought to be avoided, as it will be found that extra length of body not only adds much to the weight of the carcass, but insures a larger proportion of lean meat to the gross weight. Every care ought to be taken to prevent consanguinity or close breeding. The evil effort of close breeding shows itself sooner in the case of piga than in any other of our domestic animals, and therefore fresh blood is most essential. body being long and well balanced, car-In practice it will be found that a well- rying its weight both forward and aft shaped pig can be reared, fed and instead of merely the latter, like the brought, in a shorter space of time, to American favorite. The plumage of the a greater weight upon a smaller Aylesbury should be a spotless white, amount of food than a mongrel-bred the legs of a deep orange hue, and the one, while the bacon and hams cut bill of a peculiar flesh-colored tint. The from the carcass of a weli-bred pig are last is strongly insisted upon, and any superior in quality and command a birds whose bills are slightly off color higher price in the market. Even in will fail to bring the highest prices, the heavily stocked markets of the even though otherwise without blempresent day there is still "room at the ish. The reason for this prejudice is top," and to-day there is still margin the general opinion that the flesh of in the wholesale and retail markets be- the purc-bred Aylesbury is more delitween the price of ordinary bacon and cately favored than that of any other hams and those classed as best quality. kind.

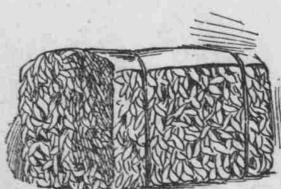
The flesh of pigs is soft if fed on brewery and distillery grains. Turground and cooked.

It is said that one of the principal reasons why Danish bacon has taken such a hold on the English market, and has been so profitable to the farmers in Denmark, is the fact that they have fed their pigs largely on separated milk. Nor is milk feeding a new idea. For generations the cottagers in Cumberland and Yorkshire have made a point of buying skimmed milk for their pigs for at least a month before they were killed for family use. Although seemingly an expensive food, the use of milk has been found to add to the flavor of the meat and also to prevent waste in cooking. When creamery separated milk is available it may be used fresh from the separators, but if it has to be carried, or kept over, it ought to be heated to a temperature of 180 degrees at the creamery immediately after it is separated.

BALED CORN FODDER.

In a Few Years It Will Be a Standard

Farm Product. The deficiency in the hay crop of 1895 has directed attention to corn fodder as a substitute. In spite of its having been repeatedly proved, many farmers still leave it in the field exposed to the weather, and then bemoan the fact that their stock eat it unwillingly. To prevent the hardening and toughening of the woody fibers of the plant, and to retain its palatability, corn fodder must be properly cured, like hay. It should then be cut or shredded before feeding. If a cutter is used the best length is from two and a half to three inches. Shorter lengths are apt to stand on end in the animal's mouth, thereby rendering it sore. Only small



COPN FODDER BALE.

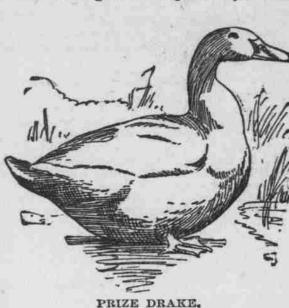
quantities may be cut at a time, as there is danger of heating. The shredder has many advantages over the cutter. The most prominent are the absence of sharp edges, the lack of waste and the fact that it can be baled like hav. The latter has caused it to be shripped to the city in some quantity. Unfortunately, buyers ignorant of its true value have generally passed it by. This is the fate of all new things. But ket prices of shredded corn fodder will, for maintenance and egg production has been over-estimated we do not way, is a very convenient arrangement be as regularly quoted as those of hay, will go to fat. for which it is a cheap and excellent substitute.-N. Y. World

Storing Sweet Potatoes. It is quite difficult to keep these vegetables through the winter, but it may be done if carefully attended to. They must be kept perfectly dry and not alabove ground. There are but few cel- grees warmer than the outside air in lars where they can be kept to perfec- winter, and as much cooler in summer.

THE AYLESBURY DUCK.

Brief Description of a Breed Very Popular in England.

The breed takes its name from Aylesbury, England, where the duck rearing and fattening industry is carried on to an enormous extent. The whole district presents a most remarkable inent breeds suit different localities, and fowls raised on an equal area, and these recent inventions. Dr. H. M. Shaw, of are connected above by a hard-wood ers the necessity of fresh blood and bury breed, which is the favorite one throughout England.



is larger than the Pekin. It is generally considered more graceful, the

Aylesbury ducks have degenerated somewhat in size in this country, ownips and mangolds are unsuitable for ing to too much inbreeding; but by producing good bacon. The following | careful selection this tendency may be foods are suitable for producing good obviated. Where there is plenty of bacon: Potatoes (cooked), milk, bar- clear water so as to enable it to keep ley meal, oatmeal and crushed oats, ciean, this is a very valuable breed pollard bran, wheat (ground), rye The ducks are sociable, very easily meal, Indian corn (used sparingly), tamed, and cross well with either Rouens or Pekins .- N. Y. World.

ABOUT AFTER-SWARMS. A Beekeeper Tells of a Simple Way

Prevent Them. The best way I know to prevent after-swarms is to have all the bees that can fly go with the first swarm, and this is the way I manage it: Have go a partial rotation first in one direcall the colonies strong, even if it should be necessary to double them up in the spring so that they will swarm at the beginning of the honey flow. Then hive the prime swarm on the old stand, removing the super, if any, from the present hive to the swarm; then set the parent hive on top of the swarm's hive and allow it to remain there two or three days. All the carry them to a new location; they oars are. will not swarm again, but will build up a strong colony, and will store some fall honey and be a good colony to winter. In this way we get extra strong developed by his machine operates so colonies that will store more honey than the two together would if the Any expenditure of this force tends queen-cells had been cut out. Crowd to lower the burden. Elevation of the the brood chamber with bees instead latter to its full height involves about of contracting it .- George W. Stephens, in Nebraska Queen.

AMONG THE POULTRY.

Nearly all of the nonsitting breeds lay white eggs. Unusually large eggs denote that the

hens are too fat. One way of preventing gapes is to

feed on a clean surface. Do not try to keep too many. Hens

that are crowded will not lay .. The earliest maturing fowl of the larger breeds is the Langshan.

If chicks are raised in a brooder care must be taken to keep the heat uni-

Gather the eggs regularly now, otherwise they are liable to become frozen and broken.

the best results. Fifty is as many as should be together.

something to do. In selecting young pullets for breeding take the early hatched. They will

bring stronger, healthier chickens. The fact should be kept in mind that tent of 600,000,000 bushels. That is a the day will soon come when the mar- the excess of food over what is required pretty high figure, but that the crop under one roof, with a wide passage- George G. Groff, in N. Y. Tribune.

> are several, and each purpose requires potato crop is also over-estimated in ers), also possesses some advantages. If the food most naturally suited to it in our judgment.-Farmers' Voice. order to secure the best results .- St. Louis Republic.

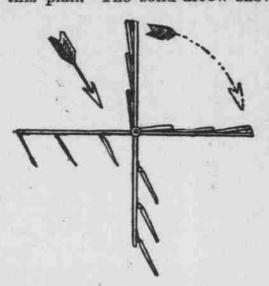
When to Water Horses.

Always water your horses the first rot. The best way to keep them is to the water be too cold. If it is too cold pack them in cut straw or chaff in bar- you will probably have a case of colic. rels or boxes, and keep them in a room | Water is best when it is about ten detion. Sometimes they are wrapped in Give the hay before the grain, so that paper and packed without using chaff | the stomach may be partially filled beor straw. Others use dry sand as the fore the concentrated food gets into it. Then again, dampness of the quarters packing material. The room in which Better still feed chopped feed. Mix the kept until spring.-Farm and Fireside. are made when the horse is at rest.

FARM AND GARDEN.

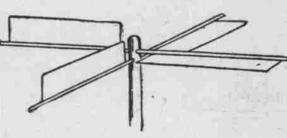
WINDMILL KOVELTIES.

Two Recent Attempts to Improve on the Prevailing Styles. The use of windmills for developing power in the rural districts is steadily stance of poultry farming. Cottagers increasing, and much thought is now rear from 500 to 2,000 head a year, and being given to the possible improvethere are plenty of large breeders. In ment of existing designs. Herewith no other part of the world are so many | we rudely indicate the principles of two | stand ten feet or more in height. These birds all belong to the so-called Ayles- Genoa, N. Y., would have four horizon- beam (c), three inches thick and ten plans of a type of bank barn quite drink, and this can be furnished in such tal arms of frames, to each of which inches in depth, mortised into the posts he would attach, by hinges, one or more and held by pins or bolts. At f, near the state. The size given is intended for a it, as they surely will if they can.. We The full-grown Aylesbury duck vertical sails, either entirely flat or post b, and directly over the platform farm of 100 acres. The length of the always give our ducks a tub to bathe in, made of slats, shutter fashion, whose angle with a perpendicular could be ready for hanging, a small pulley is varied. The first diagram gives an idea



the direction of the wind, and the dotted one the direction of rotation. It will be seen that as each set of sails come into the right position for work each carriage. In this a different length cellar, root cellar, harness-room and they slow down gently against the of stick may be used as a "spreader," arm which supports them and carry thus adapting it to larger or smaller ly above ground, the earth being entireit with them half way around the cir- animals. cle. The wind then penetrates under the free lateral edge of each and swings | riages to be used are transferred to the them all out backward, so that they | right end of the beam except one, offer no resistance as the arm comes up into the wind again. As yet, Dr. Shaw has not yet completed his model, but he believes that there will be no serious slamming as the sails suddenly swing back. Should there be trouble of this kind, however, he would interpose spring buffers to lessen the noise and destructive action consequent upon the battering of his shutters. An automatic regulator, not represented here, throws the sails out of action in a gale.

Another device, patented by a cardown to suitable transmitting mechanism) he runs two horizontal shafts, at right angles with each other. These shafts are arranged to rock, or under-



tion and then in the other. To each young bees that have been out of the half of a shaft is rigidly secured a hive, when they come out, will go in blade or sail, in such a manner that below with the swarm. About the aft- when one of the pair stands upright ernoon of the second day, if the the other will be lying down. A simple weather has been favorable, the parent and ingenious attachment rocks these colony will have become so depleted shafts and automatically raises and of bees that they will give up swarming lowers the blades, according to the rea second time and will begin to carry quirements of the service. The sails

An important feature of the latter wind engine is that he has provided for the storage of power. The force as to lift a heavily weighted platform. half a day's work. Grist mills, pumps, dynamos and other mechanical or electrical devices dependent on the wind engine for power can be run for a few hours during a calm if the storage platform has been previously raised to the top notch, say, during the night .- N. Y. Tribune.

FACTS FOR FARMERS.

Lime on dry soils will show its effect at once and one application will show for years.

can. There is little use in selling at present prices.

If your hay is dusty wet it before giving it to horses. Dusty hay is a source of great injury to horses.

It is worth while to take extra pains to keep the rats out of the corn crib. It Small flocks, well cared for, will give is a good plan to nail projecting tin around the edges.

Taking all things into consideration, When the hens are closely confined the matted row system of growing they will thrive better if they can have strawberries is the most profitable, especially if care is taken not to let the plants grow too thick in the rows.

A St. Louis paper thinks that the corn crop has been over-estimated to the ex-

Leg Weakness in Fowls.

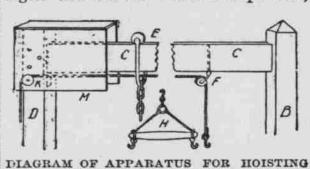
tism. We have experimented with its min.-Prairie Farmer. use and found the results as stated. cause of the difficulty.-Prairie Farmer. to do this it should be burned.

HOG-HOISTING DEVICE.

Simply Indispensable for the Hauling of Heavy Animals.

A convenient device for hanging hogs is a valuable assistant in the handling of heavy animals. The accompanying illustration represents the principal parts of such a contrivance. Stout posts (a and b), seven or eight inches square, are firmly fixed in the ground about 16 inches apart, and upon which the hog has been made suspended from the beam, using for of this plan. The solid arrow shows this purpose an eye bolt passing through the beam but not above it. The frame of this pulley should be large enough that the hook on the end of the rope may be readily put through it or removed. A number of carriages similar to e are made to run on the beam. They consist of a hard-wood roller four inches in diameter and of about the same length, from which hangs a long iron loop inclosing the beam. This loop

In working this device all the car-



HOGS.

which is brought into position on the left of the pulley, at f. The rope is penter of Topeka, Kan., also has sails passed through the loop of this carrevolving in a horizontal plane, and is riage, over the pulley and downward, provided with means for keeping their | the hook at the end of the rope taking edges to the wind when moving against | hold of the large ring of the hanger, the latter. Through a vertical shaft which has been used as a gambrel. The (which conveys the power obtained carcass is raised to a proper height when the hook at the top of the hanger is placed in one of the links of the chain suspended from the carriage. The rope is now withdrawn from the pulley as f and hung upon the carriage, and by the continued use of the windlass the hanging animal is borne away to the left. The second carriage is now brought to the left of the pulley, the ope rearranged, and the same operation repeated for the second animal. As it is important that the upper surface of the beam remain smooth and hard, it is protected when not in use by a board covering extending a few inches on either side, or the shelter box (m) for the carriages may extend from post to post .- American Agriculturist.

Quality Must Be Kept Up.

It is of the utmost importance that we maintain the quality of our live stock, and the only way to do this is out drone-brood. It is then safe to are "feathered" as a skillful boatman's to strive hard to improve it. Good beef never lacks demand either at home or abroad. In fact it is a potent influence in creating that "fellow feeling which makes a mortal wondrous kind.' The Britisher has a warm spot in his heart for a good bit of American roast, though he may not tell about it, and the American epicure keenly relishes a bit of English mutton, well prepared, though he may not tell about it either. two hay mows each 16x501/2 feet and An Excellent Contrivance for Keeping Our export trade in live stock and 22 feet to the square. The arrangement meats has reached enormous propor- of hay and straw funnels and of grantions. Our products, however, have to ary and feed bins is given in the cut, stand sharp competition in the world's and will be found to be convenient for enarkets, and in order to hold our own all purposes intended. The two haywe have got to give close attention to mows which, owing to their great the healthiness of our live stock and to height, hold a large amount of hay, its quality.—Farmers' Review.

Hens Need a Supply of Salt. We have referred to the matter of 2 and on the wheat. When the crops furnishing salt for fowls in these col- are thrashed the machine is set on floor amns once or twice, and expressed our No. 2, and the straw passed directly into It is better to hold your corn, if you belief that the moderate use of this the straw loft, which is large enough condiment is beneficial. Now we find to hold it all. Floor No. 1 may then be that by experiment in the New York used for storing the cornfodder. The experiment station it has been demon- granary is conveniently situated for strated that the use of salt at the rate running the grain into the wagons beof one ounce to 100 hens each day is low. Underneath the straw shed is ambeneficial, and at the trials the hens ple space for storage of all manure unthat were fed salt produced more eggs til it is removed to the fields. The apthan those that were fed without salt- ple cellar may be used for storage of ing their feed. It has been our prac- potatoes. tice to salt all soft feed given to our As planned this barn should face the poultry, at about the rate food for hu- east. If, however, conditions prevail man use is salted. This, we believe, is which necessitate its facing the south, about the proper condition in which to then the straw shed should be built to give it, and that benefit will result we the other side of the barn, which will are confident.—Farm and Fireside.

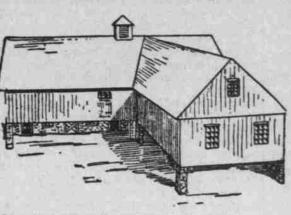
Single or Separate Houses. A long house, with apartments all protection from prevaining winds .doubt. Crop reports are nearly always for a large flock (that is, each flock to The purposes for which fowls are fed exaggerated to keep prices down. The have a house separated from the othlice get into a large house it will not the matter of grasses. For a long time During this season there have been a | flock will necessarily cause all the othweakness in fowls. Heretofore it has plan the lice can more easily be sublowed to touch each other, or they will thing in the morning, and do not let been very unusual. There are several dued, as one may contain lice while causes of leg weakness, among them the others are exempt. We call attenthe feeding of sulphur. If sulphur is tion to this matter because there is

Whether to burn over the stubble conduces to leg weakness, and so will or not before plowing is a question that they are put must be kept above the ground grain with dampened hay or overfeeding. When the hens have good is asked. If in a region where there freezing point, and must be dry. If fodder, and give the largest feed at appetites, and appear well except un- is enough rain to rot the stubble there these conditions and precautions are night, when the horse has time to di- able to move freely, remove them from is no need of burning, except to kill inkept in view, sweet potatoes may be gest it. Fat and food for the muscles the male, as often his attentions are the sects. Where there is not enough rain

AGRICULTURAL HINTS.

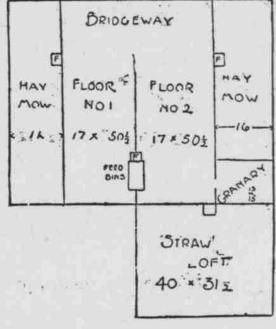
SPLENDID BANK BARN. The Style Most Popular Among the Farm-

ers of Pennsylvania. It is an old saying that settlements of Pennsylvania Germans ("Dutch") may while the houses are not so large as the | nished with proper quarters. barns, they are always substantial and



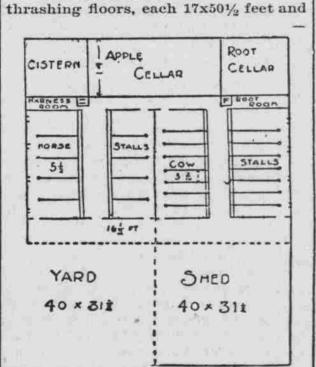
PENNSYLVANIA BANK BARN.

should be wide enough below, and ex- main structure is 65 feet, with a width tend downward far enough that the of 601% feet, there being an overshoot carriage may pass to the pulley at f. of 161/2 feet in front. The shed for From the loop hangs a chain about 18 straw is 40 by 301/2 feet. The basement inches in length. Through the post a or stable walls are built of stone, and an opening is cut just below the beam, | are 10 feet to the floor above. The baseand a pulley (k) inserted, over which ment is furnished with large windows the rope is carried down to a windlass on three sides and will conveniently fixed on the post a few feet from the stable ten horses and 16 cows, besides ground. A hanger (h) is provided for giving space for a large cistern, apple root-room. This basement is entire-



ly removed from three sides, and only rangement gives at once warm and dry one to the other, and an instrument immediately under the barn floor and | prepared from the results of many exout under the overshoot. There is periments shows at a glance the peran unobstructed view over the whole centage of moisture in the soil. basement, no high racks being used.

The second floor contains two solid



can be stored on overheads of floor No. | giving water. Have a box just large

permit the morning sun to enter the stable yard and will also place the shed on the west, where it will serve as a

Grasses in the South. One good result of the enforced

economy among southern planters is only be more difficult to rid the prem- the south was regarded as unfit for ises of them, but the attack upon the grass production, although men here and there demonstrated its falsity. Mr. very large number of complaints of leg ers to be liable. With the single house Hilyard, a northern man, but for many years a resident of the south, proved by actual and frequent experiments not only was this section a great grass country, but perhaps the greatest in given in damp weather it acts almost as something else to consider in a poultry the world. He showed that the south, a poison, and affects the bones, causing house other than its arrangement, and in her more favored regions, surpassed pains in the limbs similar to rheuma- that is its liability to attack from ver- the north in cultivation of the grasses and forage crops grown there, and that she had numerous plants of that kind which the north could not sucessfully produce. It has been proven by an-(Ga.) Chronicle,

DUCK RAISING PAYS. Farmers Should Pay More Attention to

This Lucrative Business. A good many people are prejudiced against ducks, because of the notion that they make mud and are noisy, and are not as profitable as chickens. This is a great mistake, for ducks can be be known by their red barns and small kept as easily and in as cleanly a manhouses. This is true of the barns, and, ner as any other fowls, if they are fur-

Pekin or Rouen ducks do not need well furnished. The accompanying water, except a plentiful supply to common in the central portion of the a way as to keep them from getting into and when they have had their bath empty the tub for that day.

Ducks produce as many eggs as do hens, and in most of places their eggs sell for two cents a dozen more than hen's eggs, because of their greater size. If they have been well kept through the winter, they will begin to lay about the middle of February, and continue until they have produced about 15 dozen, when the old ones may be sold, leaving the spring hatch for next season's work.

Ducks will thrive on the coarsest kind of food, and the young are very hardy, as they are never bothered with lice or diseases of the kind that often attack young chickens. A duck once hatched is liable to live to maturity on food that a chick would die on in a

When sold ducks always sell for more by the pound than chickens do, and there is no reason to believe that a pound of duck costs more than a pound

We have named Pekins and Rouens. The Aylesburys are just as valuable, but pure-bred ones are very rare, most of them having been crossed with Pekin blood.

We are very much in favor of the farmers paying more attention to ducks than they show a disposition to at this time.—Farm and Fireside.

ELECTRIC SOIL-TESTER.

Clever Invention for Determining the Amount of Moisture.

The well-known fact that damp earth is a better conductor of electricity than dry earth is the basis of an apparatus invented by Prof. Milton Whitney, chief of the division of soils in the agricultural department, which he thinks will be a valuable aid in producing the best results from the cultivation of soil. The plates, constructed of the material which forms the carbon points in arc lights, are sunk in the remaining on that side from which ground at any desired depth. A curthe second floor is reached. This ar- rent of electricity is then passed from stables, which are well lighted and measures in ohms the resistance which well ventilated. The ventilators are the soil between the plates makes to along the whole front of the stables, the passage of the current. A table

> The apparatus will be especially valuable in hothouse culture, in Prof. Whitney's opinion, for in that the conditions are best for regulating the proportion of moisture, but the amount of moisture in the fields can be regulated to a greater degree by cultivation. This is particularly so in sections of the country where irrigation is practiced. By the use of this apparatus, which is simple and comparatively inexpensive, the farmer can accurately determine what crop is best adapted to the soil of each field, and thus make his labor and investment count for the most in results. From a series of experiments conducted last summer Prof. Whitney has practically demonstrated that when pasture land shows less than one-third per cent. of moisture it has reached the danger line, and a severe drought is immi-

SECURE FEED BOX.

Poultry Food Clean. Where soft food is given fowls, it is usually trampled upon by the fowls before fully eaten. To avoid this, make & shallow box and hinge to it a cover of slats made of laths. Through these the fowls can reach all the food, but are first filled. Then the wheat crop cannot soil it. The same device may is placed on floor No. 1. The oats crop also be used with a smaller box for



enough to set the dish of water within, and shut the slat cover down over it. A similar device for giving water in a way to keep the fowls out of the water vessel is to have a moderately high box, with slats up and down one side. Then set the water dish within, and the fowls can drink through the slats. The top of the box or cover, should be sloping to keep the fowls off from it .-Orange Judd Farmer.

Hints About Marketing Honey. There are a few points well worth knowing in the marketing of honey. The first thing necessary is to see that the honey is carefully assorted. Then it should be thoroughly cleaned and put into neat, white crates. Another very important thing is, the crates should be the same thing all through; that is, the honey should be just what it appears to be on the face of it. There is a great deal of talk nowadays about low prices and slow sales, but the man who has an honest, clean, first-class article of any kind need not go begging for customers, even in these hard times .- Farm and Home.

Much is written about warming water for cows. Seldom is anything alysis, by facts and figures, that our said about not giving horses water that Bermuda grass is far more nutritious is too cold. It should never be too cold, than the famous timothy .- Augusta and especially in the morning .- Firm er's Voice.